

#5  
Prior Art  
PATENT  
Docket No. 5634.243  
R. Morgan

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: John C. Harvey and James W.  
Cuddihy

Group Art Unit: 2602

Serial No.: 08/459,788

Examiner:

Filing Date: June 2, 1995

For: Signal Processing Apparatus and  
Methods

Assistant Commissioner of Patents  
Washington D.C. 20231

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95 DEC 11 PM 3:57  
GROUP 260

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a) and in  
conformance with the procedures of 37 C.F.R. §§ 1.97-98 and M.P.E.P. § 609, the  
attention of the Patent and Trademark Office is hereby directed to the references listed  
on the attached Form PTO-1449.

The above-referenced application claims priority under 35 U.S.C. § 120 of the  
following applications:

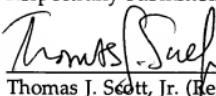
<u>Serial No.</u>	<u>Filing Date</u>	<u>Patent No.</u>
08/113,329	August 30, 1993	Pending
08/056,501	May 3, 1993	5,335,277
07/849,226	March 10, 1992	5,233,654
07/588,126	September 25, 1990	5,109,414
07/096,096	September 11, 1987	4,965,825

Applicants believe that all references cited on the attached PTO 1449 form were cited by or submitted to the PTO in one or more of the case cited above or in U.S. Patent Application Serial No. 06/829,531, filed February 15, 1986 now U.S. Patent No. 4,704,725, U.S. Patent Application Serial No. 06/317,510, filed November 3, 1981 now U.S. Patent No. 4,694,490 and co-pending U.S. Patent Application Serial No. 08/448,143, filed May 23, 1995. Therefore, no copies of the listed references are provided herewith. Additionally, references believed to be dated in the period from November 3, 1981 through September 11, 1987 are included in the present IDS as this application only claims priority to the September 11, 1987 filing date. It is respectfully requested that the information above be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

CERTIFICATION AND/OR FEE

Since this IDS is being filed pursuant to 37 C.F.R. § 1.97(b) before the later of three months after the filing date of the above-referenced application or the date of receipt of the first Office action on the merits, no certification or fee is required.

Respectfully submitted,

  
Thomas J. Scott, Jr. (Reg. No. 27,836)

Dated: December 5, 1995

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<b>Supplemental Information Disclosure Statement by Applicant</b>  <b>Title: Signal Processing Apparatus and Methods</b>	Attorney Docket No. 5634.243	Serial No. 08/459,788
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### U. S. Patent Documents

Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date
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	2,619,530	11/25/52	Roschke	178/5.1	
	2,892,882	6/30/59	Hughes	178/5.1	
	2,972,008	2/14/61	Ridenour, et al.	178/5.1	
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	3,336,437	8/15/67	Brouard, et al.	178/5.4	
	3,478,164	11/11/69	Southworth	178/6.6	
	3,576,391	4/27/71	Houghton	178/5.6	
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	4,148,066	4/3/79	Saylor	358/127	
	4,175,267	11/20/79	Tachi	358/4	
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	4,400,717	8/23/83	Southworth, et al.	358/13	
	4,439,761	3/27/84	Fleming, et al.	345/189	
	4,449,145	5/15/84	Ciciora	358/147	
	4,458,268	7/3/84	Ciciora	358/120	
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	4,734,907	3/29/88	Turner	370/60	9/6/85

\*- If pertinent

\*\*\*- Claims priority from parent application filed prior to Sep. 11, 1987.

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### Foreign Patent Documents

Examiner Initial	Document Number	Publication Date	Country	Class / Subclass	Translation Yes	Translation No
	WO 85/03604	8/15/85	PCT Application	H03K 3/84		X
	0 132 007	1/23/85	European Patent Office	H04N 7/16		X
	2 033 699	5/21/80	Great Britain	H04L 1/10, 1/40		X
	2 058 681	6/15/72	Germany	H04N 7/08	X	
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	Applicant(s) John C. Harvey and James W. Cuddihy	
	Filing Date June 2, 1995	Group 2602
<b>Title: Signal Processing Apparatus and Methods</b>		

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
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	4,562,465	12/31/85	Glaab	358/120	
	4,562,495	12/31/85	Bond et al.	360/78	
	4,566,030	1/21/86	Nickerson et al.	358/84	
	4,567,512	1/28/86	Abraham	358/86	
	4,573,072	2/25/86	Freeman	358/86	
	4,573,151	2/25/86	Jotwani	370/56	
	4,574,305	3/4/86	Campbell et al.	358/86	
	4,575,750	3/11/86	Callahan	358/86	
	4,577,289	3/18/86	Comerford et al.	364/900	
	4,580,165	4/1/86	Patton et al.	358/148	
	4,583,128	4/15/86	Anderson, Jr. et al.	358/302	
	4,584,641	4/22/86	Guglielmino	364/200	
	4,586,134	4/29/86	Norstedt	364/200	
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	4,589,064	5/13/86	Chiba et al.	364/200	
	4,590,516	5/20/86	Abraham	358/86	

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<b>Information Disclosure Statement by Applicant</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.243	Serial No. 08/459,788
	Applicant(s) John C. Harvey and James W. Cuddihy	
	Filing Date June 2, 1995	Group 2602

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
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	4,591,664	5/27/86	Freeman	179/6.06	
	4,591,906	5/27/86	Morales-Garza et al.	358/84	
	4,592,546	6/3/86	Fascenda et al.	273/1 E	
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	4,595,950	6/17/86	Löfberg	358/122	
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	4,603,232	7/29/86	Kurland et al.	179/2 AS	
	4,605,973	8/12/86	Von Kohorn	358/335	
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	4,613,901	9/23/86	Gilhousen et al.	358/122	
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	4,630,108	12/16/86	Gomersall	358/84	
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	4,638,359	1/20/87	Watson	358/147	
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	4,641,307	2/3/87	Russell	370/60	
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	4,677,434	6/30/87	Fascenda	380/23	
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	4,712,238	12/8/87	Gilhousen et al.	380/20	6/8/84
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	4,725,886	2/16/88	Galumbbeck et al.	358/147	4/21/83
	4,728,949	3/1/88	Platte et al.	340/825.37	3/23/84
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	4,792,849	12/20/88	McCalley et al.	358/86	8/4/87
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	4,803,725	2/7/89	Horne et al.	380/44	5/14/87
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	4,813,011	3/14/89	Kulakowski et al.	364/900	5/13/85
	4,815,129	3/21/89	Griffin et al.	380/15	1/2/85
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	4,821,032	4/11/89	Shimada et al.	340/825.210	12/23/85
	4,821,102	4/11/89	Ichikawa et al.	358/183	7/29/87
	4,827,508	5/2/89	Shear	380/4	10/14/86
	4,829,372	5/9/89	McCalley et al.	358/86	8/20/87
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	Applicant(s) John C. Harvey and James W. Cuddihy	
	Filing Date June 2, 1995	Group 2602
Title: Signal Processing Apparatus and Method		

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	4,860,379	8/22/89	Schoeneberger et al.	455/5	10/20/88***
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	4,868,866	9/19/89	Williams, Jr.	380/49	2/18/88***
	4,876,592	10/24/89	Von Kohorn	358/84	5/10/88***
	4,887,172	12/12/89	Steele	360/73.06	4/10/87
	4,888,796	12/19/89	Olivo, Jr.	379/101	8/31/87
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	4,916,539	4/10/90	Galumbeck	358/142	3/14/89***
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	5,010,571	4/23/91	Katznelson	380/4	9/10/86
	5,034,807	7/23/91	Von Kohorn	358/84	10/19/89***
	5,036,537	7/30/91	Jeffers et al.	380/20	4/3/87
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	5,050,213	9/17/91	Shear	380/25	8/6/90***
	5,057,915	10/15/91	Von Kohorn	358/84	10/25/90***
	5,060,140	10/22/91	Brown et al.	364/200	1/16/86
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	5,089,885	2/18/92	Clark	358/86	8/1/88***
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	5,140,419	8/18/92	Galumbeck et al.	358/142	12/21/89***
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	5,208,665	5/4/93	McCalley et al.	358/86	2/15/91***
	5,216,552	6/1/93	Dunlap et al.	360/33.1	8/30/88***
	5,227,874	7/13/93	Von Kohorn	358/84	10/15/91***
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\*- If pertinent

\*\*\*- Claims priority from parent application filed prior to Sep. 11, 1987.

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Examiner Initial	Document Number	Publication Date	Country	Class / Subclass	Translation Yes	No
	0 055 674	7/7/82	European Patent Appl.	H04L 11/20		X

Examiner	Date Considered
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	Title: Signal Processing Apparatus and Method		Filing Date June 2, 1995

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	0 128 481 A2	12/19/84	European Patent Appl.	H04N 7/00		X
	0 152 251	8/21/85	European Patent Appl.	H04H 1/02		X
	0 206 821	12/30/86	European Patent Appl.	H04N 7/00		X
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	2 126 002 A	3/14/84	Great Britain	G11B 15/02 H04N 7/00		X
	2 185 670 A	7/22/87	Great Britain	H04N 7/087		X
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	Tunmann, Ernest O. (TELE-ENGINEERING CORPORATION), "TWO-WAY CABLE TV TECHNOLOGIES," <u>CABLE '82</u> pp. 7-15.
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	McNamara, R.P. et al. (Sytek, Incorporated), "MetroNet: An Overview of a CATV Regional Data Network," <u>CABLE '82</u> pp. 22-31.
	Eissler, Charles (Oak Communications Systems), "Addressable Control for the Small System," <u>CABLE '82</u> pp. 32-36.
	Mesiya, M.F. et al. (Times Fiber Communications, Inc.), "Mini-Hub Addressable Distribution System for Hi-Rise Application," <u>CABLE '82</u> pp. 37-42.
	Thomas, William L. (Zenith Radio Corporation), "Full Field Tiered Addressable Teletext," <u>CABLE '82</u> pp. 44-46.
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	Applicant(s) John C. Harvey and James W. Cuddihy	
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	Filing Date June 2, 1995	Group 2602

### Other Documents

Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
	Vaughan, Kimithy, "Evolution of Corporate Television Networks," <u>Teleconference</u> , The Business Communication Magazine, pp. 38-40.
	"New In Teleconferencing Resources," advertisement, Parker Associates, 4 pages.
	"Business Television Services," Irwin Communications, Inc., brochure, 1 page.
	"Corporate Capabilities," Irwin Communications, Inc., brochure, 1 page.
	"Introducing RSVP: The latest breakthrough for cable!", advertisement, ARBITRON, 1 page.
	"Viacom Unit Will Tap Into Pay Networks," newspaper article, 1 page.
	"SHOW or TELL?", Advertising material, The Weather Star 4000, The Weather Channel, 8 pages.
	"Video Hi-Tech Component TV," CV 1950, CV 510, CV 540, CV 520, CV 150," advertisement, Zenith Radio Corporation, 4 pages.
	"Point-To-Multipoint Data Communication Network Services," product description, Equatorial Communications Company, 5 pages.
	"C-100 Series Micro Earth Stations for Satellite Data Distribution," product description, Equatorial Communications Company, 4 pages.
	"C-200 Micro Earth Station for Satellite Data Communications," product description, Equatorial Communications Company, 3 pages.

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	"Interactive Data Communication Network Services," product description, Equatorial Communications Company, 3 pages.
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	Landro, Laura, "Satellite Company Signs Merrill Lynch For Its Video Service," <u>The Wall Street Journal</u> , 1 page.
	"ELITE 2000 Creation System," IBM Compatible Information Display System, advertisement, Display Systems International, Inc., 1 page.
	"Video Database Management . . . When Words Are Not Enough," advertisement, U.S. Video, 2 pages.
	"U.S. Video presents . . . True Computer-Video Overlays," The Raster Master RM-110, product description, U.S. Video, 2 pages.
	"Now You Can Find Just The Right Image Every Time Quickly and Easily with Image Search and The IBM PC/XT," advertisement, ONLINE Computer Systems, Inc., 1 page.
	"Touch the Future Today," advertisement, MetaMedia Systems, Inc., 1 page.
	"Training solutions for the 80's and beyond," advertisement, ONLINE Computer Systems, Inc., 2 pages.
	"Experienced Educator/Trainers," "Use the new PILOT plus Training System to develop highly interactive courseware on your IBM PC that will run on most microcomputers," advertisement, ONLINE Computer Systems, Inc., 2 pages.

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	"OMEGA VISION," product description, Omega Management Group Corp., 2 pages.
	"VISAGE Visual Information Systems," Interactive Video Products, brochure, Visage, Inc.
	"Now The Future Is Clear," Visage Visual Information Systems, brochure, Visage, Inc., 4 pages.
	"Speak Through The Power Of Today's Technology," QUEST, product description, Allen Communication, 4 pages.
	"Universal Video Controller," product description, Allen Communication, 2 pages.
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	"The Leader In Interactive Video," advertisement, Allen Communication, 2 pages.
	"Allen Communication Price List," Allen Communication, 1 page.
	"TOUCHÉ Interactive videodisc training by IIAT," advertisement, IIAT, International Institute of Applied Technology, Inc., 1 page.
	"TOUCHÉ Interactive Videodisc System," product description, IIAT, International Institute of Applied Technology, Inc., 2 pages.

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	"Touch Monitor/Videodisc Player Interface Card and Video Switch Box," IIAT Products, product description, 1 page.
	"Touch Sensitive Monitor Interface Card for Apple II," IIAT Products, product description, 1 page.
	"Touchpoint, A Total Eclipse of Existing Technology," product description, Allen Communication, 2 pages.
	"Totally Integrated Interactive System - TII-PC," product description, Allen Communication, 2 pages.
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	"Allen Communication Introduces Integrated Interactive Video Systems," brochure, 2 pages.
	"Automation, Control and Monitoring Systems," brochure, Jasmin Electronics Limited.
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	"Teleprompter of Denver Channel Line Up," 2 pages.
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	"The OASYS Authoring System," advertisement, ONLINE Computer Systems, Inc., 1 page.
	"Advertisers Guide to Cable TV Terms," brochure, Cable Ad Associates, Inc.
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	Kane, Sharyn et al., "Technology in the First Person," reprint from Delta Air Lines' SKY magazine, 4 pages.
	"Training Systems," brochure, WICAT systems, Training Systems Division, 4 pages.
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	"Introducing SPOT DATA," "Cable Ad Sales Just Got Better," advertisement, TV Data Technologies, 4 pages.

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	"Mediastar," "the message is clear," brochure, Multi-Image Systems, 6 pages.
	"Art To Go" "The Business Builder in a Box," advertisement, Multi-Image Systems, 1 page.
	"Few Things In Life Work As Well As TAPSCAN," advertisement, TAPSCAN Incorporated, 6 pages.
	"Dow Jones Cable News Service Daily Features Financial Markets," product summary, 1 page.
	"Financial News Network The Business Connection," brochure, Financial News Network, 8 pages.
	"The Financial News Network Means Business," advertisement, The Financial News Network, 1 page.
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	"FNN Financial News Network," advertisement, brief review of research from the Stanford Research Institute's VALS study, and research from ELRA Group Cablemark Reports Volume I, 4 pages.
	"Industrial Skills Training With The Touch Of A Finger . . . Introducing . . . Activ," Advanced Concepts in Touch-Interactive Video, advertisement, Industrial Training Corporation, 4 pages.

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<b>Information Disclosure Statement by Applicant</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.243	Serial No. 08/459,788
	Applicant(s) John C. Harvey and James W. Cuddihy	
	Filing Date June 2, 1995	Group 2602

**Other Documents**

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	"ODC 612 Encoder/Generator," product description, Optical Disc Corporation, 2 pages.
	"... the Recordable Laser Videodisc - RLV," product description, Optical Disc Corporation, 2 pages.
	"ODC 610 Videodisc Recording System," product description, Optical Disc Corporation, 2 pages.
	"Hitachi New CD-ROM Drive CDR-2500," product description, Hitachi, Ltd., 2 pages.
	"Hitachi CD-ROM Drive CDR-1502S," product description, Hitachi, Ltd., 6 pages.

Examiner  /Jorge Ortiz Criado/ (10/01/2010)	Date Considered
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